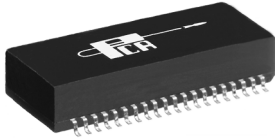


# 10/100Base-TX Module for Quad-Port Applications

## EPF8123S



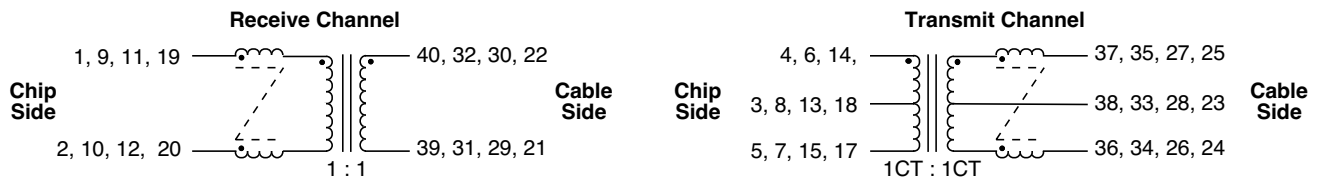
- Recommended for use with SEEQ 84220
- Designed for non-stacked RJ-45 connector
- Significantly improved Common Mode Attenuation
- Guaranteed to operate with 8 mA DC Bias at 70°C
- Complies with or exceeds IEEE 802.3, 10/100Base-TX Standards

### Electrical Parameters @ 25° C

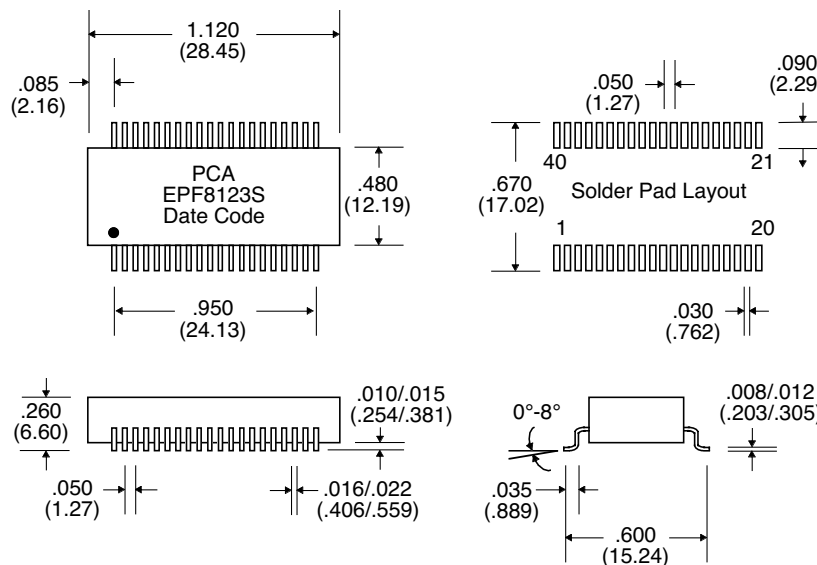
| OCL<br>(@ 70°C)                   | Insertion Loss<br>(dB Max.) |            | Return Loss<br>(dB Min.) |           |            | Common Mode Rejection<br>(dB Min.) |            |            |            | Crosstalk<br>(dB Min.) |
|-----------------------------------|-----------------------------|------------|--------------------------|-----------|------------|------------------------------------|------------|------------|------------|------------------------|
|                                   | 1-100<br>MHz                | 150<br>MHz | 1-30<br>MHz              | 60<br>MHz | 100<br>MHz | 30-100<br>MHz                      | 200<br>MHz | 300<br>MHz | 500<br>MHz |                        |
| 100 KHz, 0.1 Vrms<br>8 mA DC Bias |                             |            |                          |           |            |                                    |            |            |            |                        |
| <b>Cable Side</b>                 | Xmit/Rcv                    | Xmit/Rcv   | Xmit/Rcv                 | Xmit/Rcv  | Xmit/Rcv   | Xmit/Rcv                           | Xmit/Rcv   | Xmit/Rcv   | Xmit/Rcv   |                        |
| 350 $\mu$ H                       | -1/-1                       | -3/-3      | -18/-18                  | -12/-12   | -10/-10    | -30/-20                            | -20/-15    | -20/-10    | -10/---    | -30                    |

• Isolation : 1500 Vrms • Impedance : 100  $\Omega$  • Rise Time : 3.0 nS Max. •

### Schematic



### Package



Unless Otherwise Specified Dimensions are in Inches /mm  $\pm$ .010 / .25